

DISTRIBUTION OF THE EARTHQUAKE EPICENTERS WITH ABNORMAL DEVIATIONS OF READINGS OF THE FEDCHENKO ASTRONOMICAL CLOCK BEFORE DEFORMATION WAVE ARRIVAL

A.P. Slivinsky^{1,2}, A.V. Shulga¹, F.I. Bushuev¹, N.A. Kalyuzhny^{1,2}, N.A. Kulichenko¹,
M.A. Lazarenko³

¹ *Research Institute Nikolaev Astronomical Observatory, Nikolaev, Ukraine*

² *Ukrainian Radio Technical Institute, Nikolaev, Ukraine*

³ *Institute of Geophysics of the National Academy of Sciences of Ukraine, Kiev, Ukraine*

Abstract. Seismic waves from earthquakes are detected on the instrument complex of the Research Institute “Nikolaev Astronomical Observatory” (RI NAO) by anomalously large deviations of the Fedchenko astronomical clock. Decreasing of dispersion of FAC background noise readings is observed a few minutes before the seismic wave arrival from some earthquakes. Similar effects have not been observed on the sensor readings of a seismic station NE07 set at the RI NAO by the Institute of Geophysics National Academy of Science of Ukraine. This phenomenon may be regarded as caused by the superlow frequency electromagnetic radiation formed by detonation wave at the epicentral zone of the earthquake. Such type of radiation was frequently observed by many researchers during the blasting of chemical explosives. The distribution of the epicenters of earthquakes on the Earth surface with these anomalies FAC readings is presented.

Keywords: earthquake precursors, Fedchenko astronomical clock, seismic waves.